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Listing of Claims

1. (original) An image formation apparatus capable of forming a relatively large ink drop by sequentially discharging a plurality of ink drops from an ink drop discharging head, the sequential ink drops merging before reaching a print target medium, the image formation apparatus comprising:

pressure generating means for discharging one or more of the ink drops other than an ink drop that is not followed by any more of the ink drops in a given printing cycle (the last ink drop) at an interval nearly equal to (n+1/2) x Tc, where n is an integer equal to or greater than 1, and Tc represents a resonance cycle of a pressurized ink chamber of the image formation apparatus, the interval being measured from when a corresponding preceding ink drop is discharged.

- 2. (original) The image formation apparatus as claimed in claim 1, wherein the one or more of the ink drops other than the last ink drop are discharged at an interval nearly equal to 1.5 x Tc.
- 3. (original) The image formation apparatus as claimed in claim 1, wherein ink drops other than the one or more ink drops that are discharged at an interval nearly equal to $(n+1/2) \times 1$ Tc are discharged at an interval nearly equal to $n \times 1$.
- 4. (original) The image formation apparatus as claimed in claim 1, wherein a first ink drop is discharged by the pressurized ink chamber being contracted after being expanded, where a volume of contraction is greater than a volume of expansion, and where the volume of expansion may take a positive value or zero.

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- 5. (original) The image formation apparatus as claimed in claim 4, wherein a second ink drop is discharged at an interval nearly equal to $(n+1/2) \times Tc$ from the first ink drop that precedes the second ink drop.
- 6. (original) The image formation apparatus as claimed in claim 1, wherein a speed of one of the ink drops (the ink drop speed Vj) discharged at the interval nearly equal to (n+1/2) x Tc from the preceding ink drop is set at greater than three m/s, and at a speed at which the sequential ink drops are merged.
- 7. (original) The image formation apparatus as claimed in claim 1, wherein four or more of the sequential ink drops merge during flight to form one of the relatively large ink drops.
- 8. (original) The image formation apparatus as claimed in claim 1, wherein a waveform containing driving pulses for discharging the sequential ink drops includes a waveform for suppressing a residual vibration after a driving pulse for discharging the last ink drop.
- 9. (original) The image formation apparatus as claimed in claim 8, wherein the waveform for suppressing the residual vibration is provided within an elapsed time equivalent to Tc after the last ink drop is discharged.
- 10. (original) The image formation apparatus as claimed in claim 1, wherein a mediumsized ink drop and a small-sized ink drop are each formed by selecting a part of driving pulses

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for forming the relatively large ink drop.

11. (original) The image formation apparatus as claimed in claim 10, wherein the driving pulses include a waveform for vibrating a meniscus without causing an ink drop to be discharged.

12. (original) The image formation apparatus as claimed in claim 10, wherein the driving pulses include a section wherein a voltage is applied to the pressure generating means for pressurizing ink in the pressurized ink chamber.

- 13. (original) The image formation apparatus as claimed in claim 12, wherein the pressure generating means is a piezoelectric device, and the piezoelectric device is recharged in the section wherein said voltage is applied.
- 14. (original) The image formation apparatus as claimed in claim 1, wherein the pressure generating means for generating the pressure for pressurizing the ink of the pressurized ink chamber is a piezoelectric device, a displacement direction of which is d33.
- 15. (original) The image formation apparatus as claimed in claim 14, wherein support sections of the piezoelectric device support partitions of the pressurized ink chamber.